

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU110221\
 Data File : VU045505.D
 Acq On : 01 Nov 2021 22:22
 Operator : SY/MD
 Sample : M4438-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 FDR-20211101-WC-L

Quant Time: Nov 02 07:38:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U102821W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 29 11:09:42 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

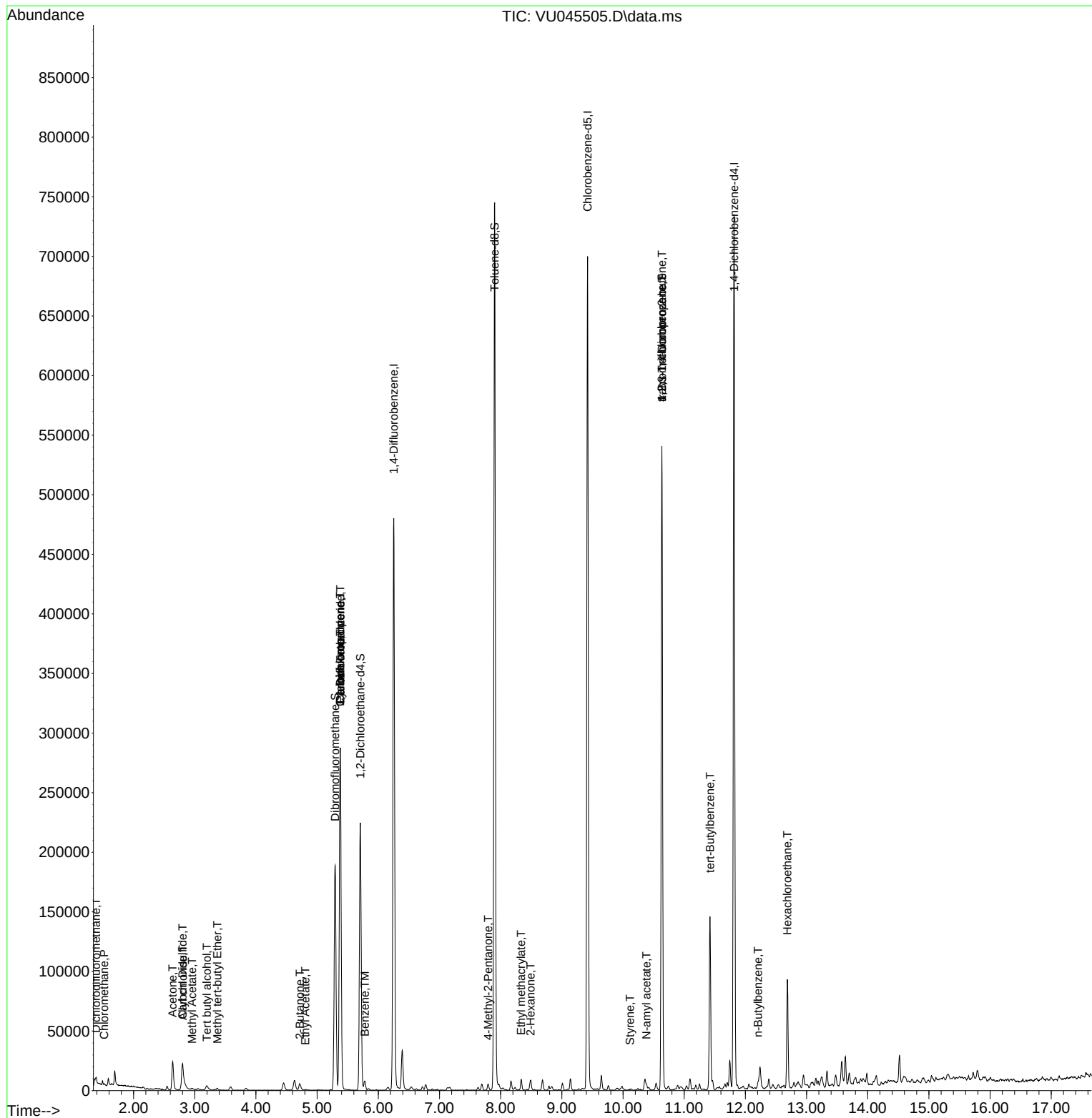
Internal Standards						
1) Pentafluorobenzene	5.378	168	193085	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	381565	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	374359	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	182865	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	165744	52.726	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 105.460%	
35) Dibromofluoromethane	5.295	113	123177	50.770	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.540%	
50) Toluene-d8	7.902	98	492948	51.813	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 103.620%	
62) 4-Bromofluorobenzene	10.635	95	186770	51.517	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 103.040%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.388	85	96	0.410	ug/l #	43
3) Chloromethane	1.520	50	819	0.213	ug/l	92
11) Tert butyl alcohol	3.198	59	4981	7.341	ug/l #	76
14) Allyl chloride	2.803	41	1357	0.335	ug/l #	1
16) Acetone	2.639	43	30589	21.434	ug/l	100
17) Carbon Disulfide	2.800	76	17029	2.653	ug/l	99
18) Methyl Acetate	2.957	43	1390	0.262	ug/l #	67
19) Methyl tert-butyl Ether	3.369	73	1667	0.205	ug/l #	78
25) 2-Butanone	4.716	43	8679	4.029	ug/l	98
31) Cyclohexane	5.375	56	4632	0.990	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	17857	4.916	ug/l #	49
37) Ethyl Acetate	4.806	43	1551	0.353	ug/l #	67
38) Carbon Tetrachloride	5.378	117	19910	6.285	ug/l #	16
40) Benzene	5.780	78	6834	0.625	ug/l	94
51) 4-Methyl-2-Pentanone	7.796	43	3696	0.863	ug/l	91
56) Ethyl methacrylate	8.333	69	4936	2.602	ug/l	98
59) 2-Hexanone	8.491	43	5107	1.538	ug/l	74
70) Styrene	10.115	104	187	0.997	ug/l #	41
74) N-amyl acetate	10.381	43	7591	2.315	ug/l #	44
76) 1,2,3-Trichloropropane	10.635	75	96236	19.752	ug/l #	42
81) trans-1,4-Dichloro-2-b...	10.635	75	96236	54.896	ug/l #	12
83) tert-Butylbenzene	11.423	119	66785	6.668	ug/l	91
89) n-Butylbenzene	12.208	91	372	0.970	ug/l #	45
90) Hexachloroethane	12.687	117	1997	1.065	ug/l #	16

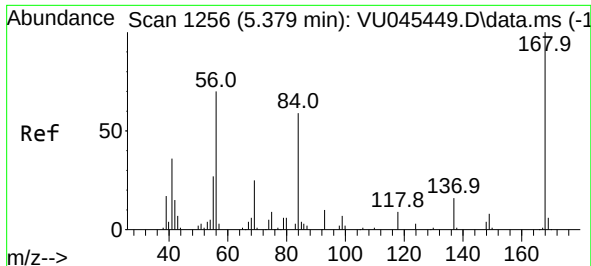
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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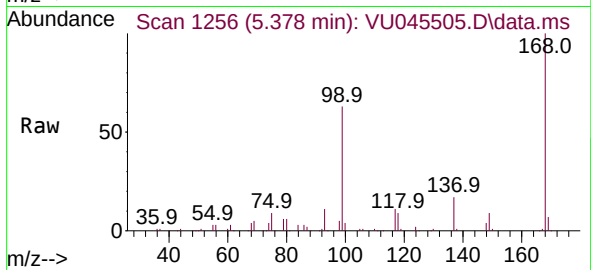
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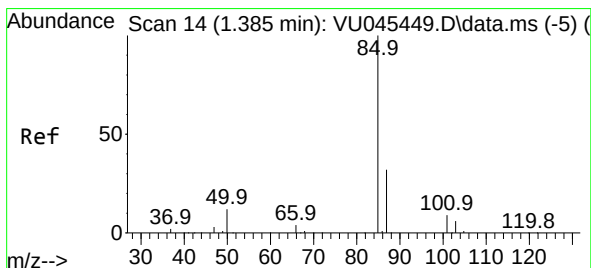
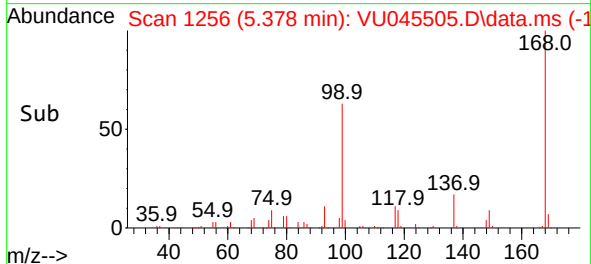
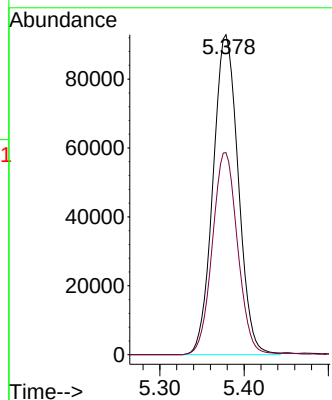


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 11
Delta R.T. -0.001 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Instrument :
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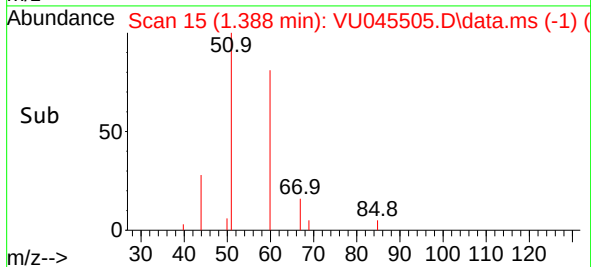
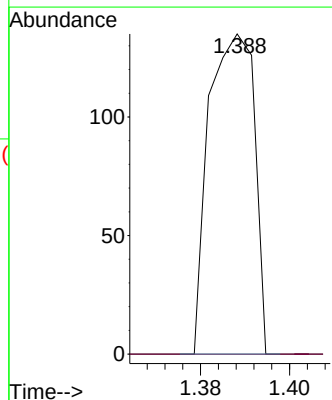
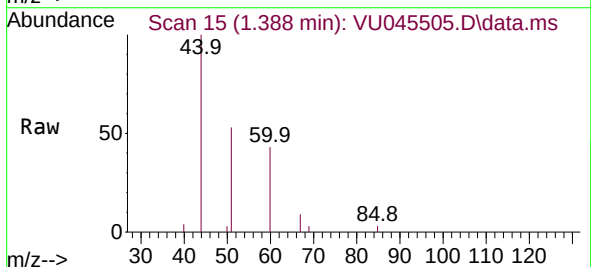


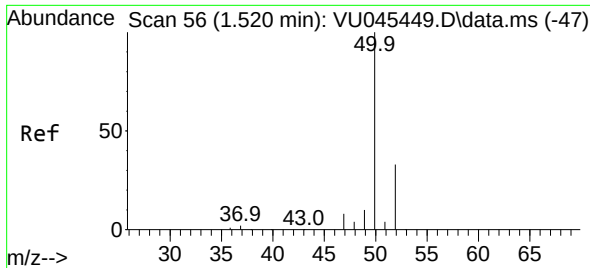
Tgt Ion:168 Resp: 193085
Ion Ratio Lower Upper
168 100
99 63.2 51.0 76.6



#2
Dichlorodifluoromethane
Concen: 0.410 ug/l
RT: 1.388 min Scan# 15
Delta R.T. 0.003 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Tgt Ion: 85 Resp: 96
Ion Ratio Lower Upper
85 100
87 0.0 15.9 47.7#

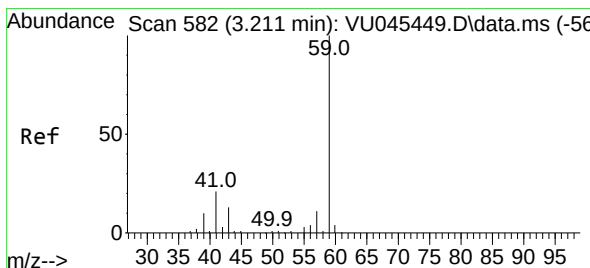
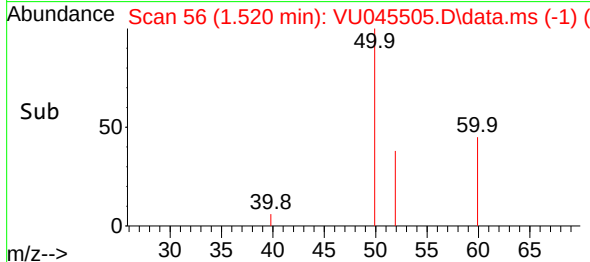
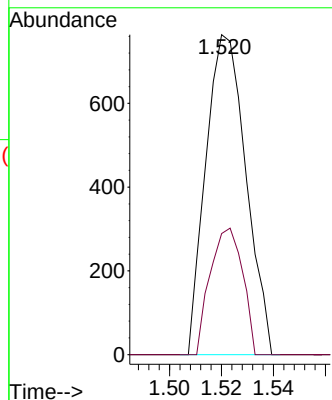
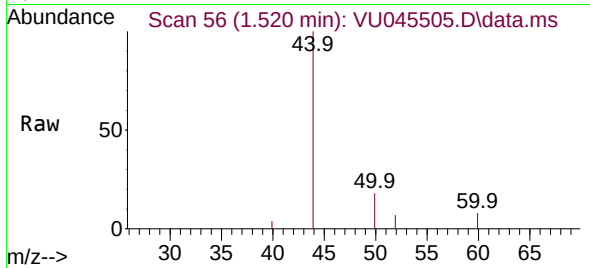




#3
Chloromethane
Concen: 0.213 ug/l
RT: 1.520 min Scan# 50
Delta R.T. -0.000 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

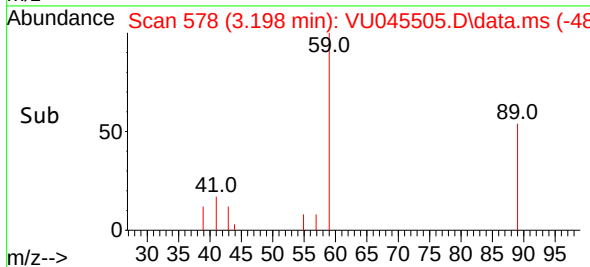
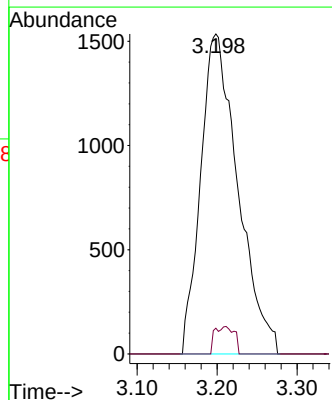
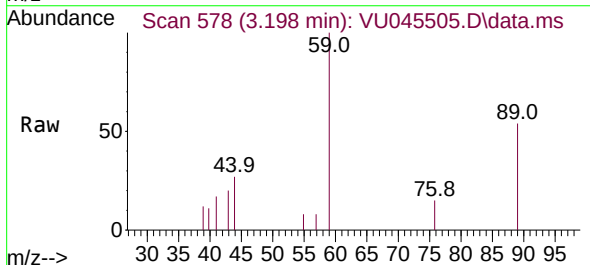
Instrument :
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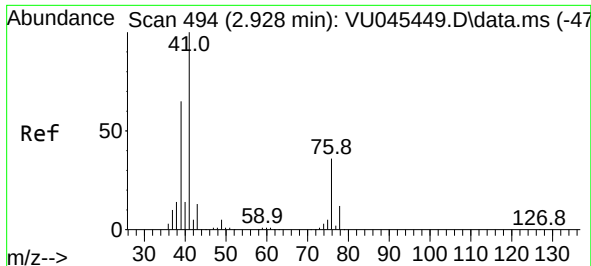
Tgt Ion: 50 Resp: 819
Ion Ratio Lower Upper
50 100
52 37.8 26.6 40.0



#11
Tert butyl alcohol
Concen: 7.341 ug/l
RT: 3.198 min Scan# 578
Delta R.T. -0.013 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Tgt Ion: 59 Resp: 4981
Ion Ratio Lower Upper
59 100
57 1.3 8.3 12.5

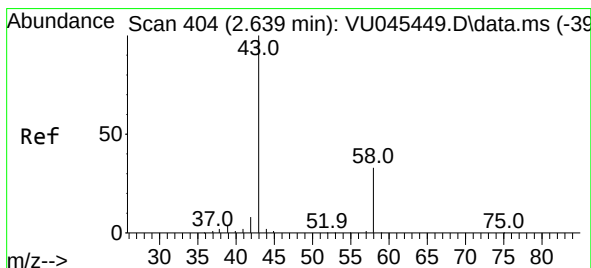
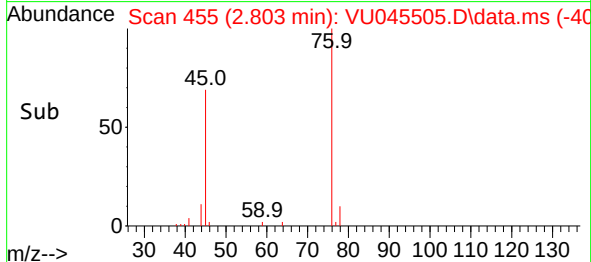
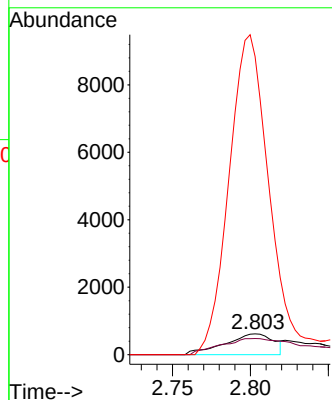
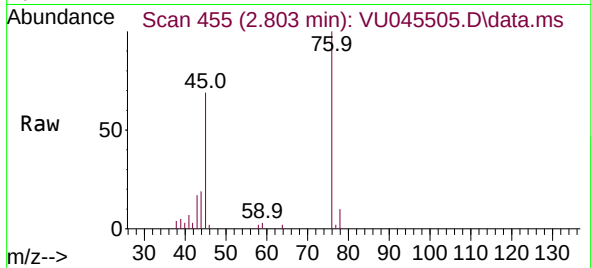




#14
 Allyl chloride
 Concen: 0.335 ug/l
 RT: 2.803 min Scan# 41
 Delta R.T. -0.125 min
 Lab File: VU045505.D
 Acq: 01 Nov 2021 22:22

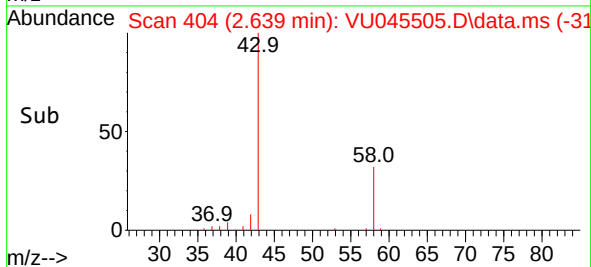
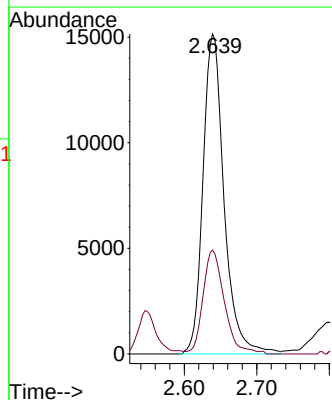
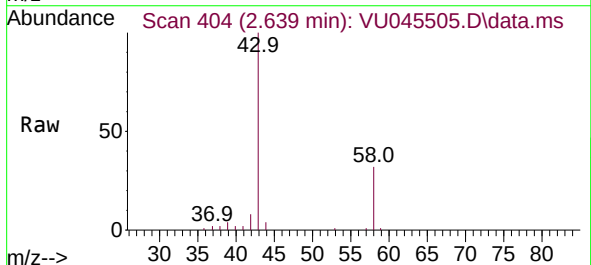
Instrument :
 MSVOA_U
 ClientSampleId :
 FDR-20211101-WC-L

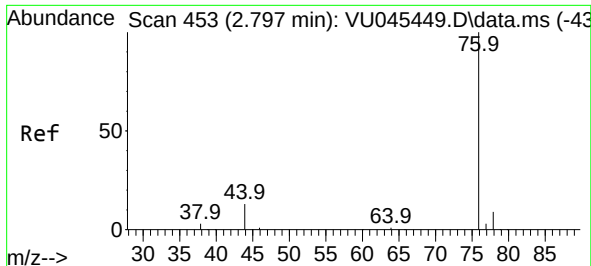
Tgt Ion: 41 Resp: 1357
 Ion Ratio Lower Upper
 41 100
 39 133.5 49.7 74.5#
 76 1254.9 27.7 41.5#



#16
 Acetone
 Concen: 21.434 ug/l
 RT: 2.639 min Scan# 404
 Delta R.T. -0.000 min
 Lab File: VU045505.D
 Acq: 01 Nov 2021 22:22

Tgt Ion: 43 Resp: 30589
 Ion Ratio Lower Upper
 43 100
 58 32.4 26.2 39.2

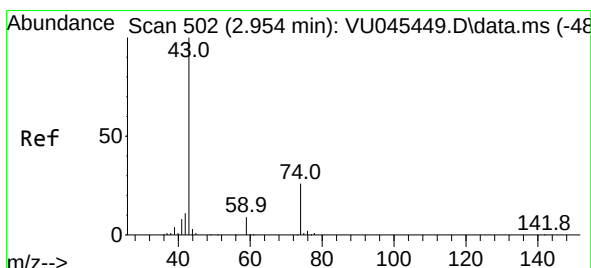
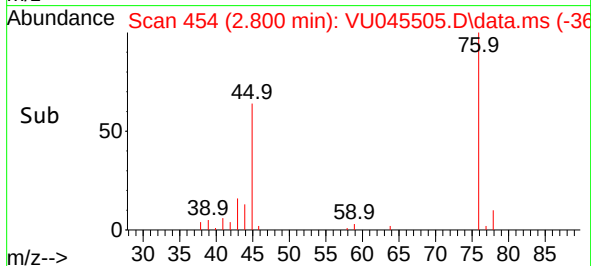
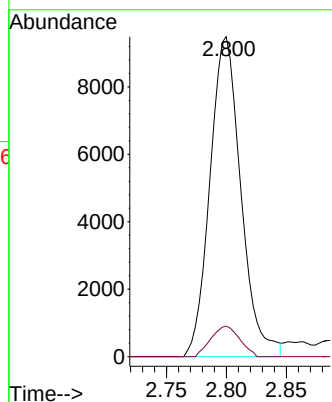
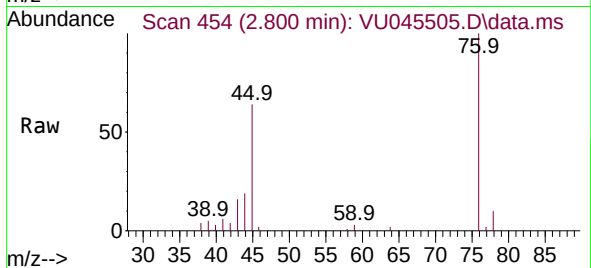




#17
Carbon Disulfide
Concen: 2.653 ug/l
RT: 2.800 min Scan# 41
Delta R.T. 0.003 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

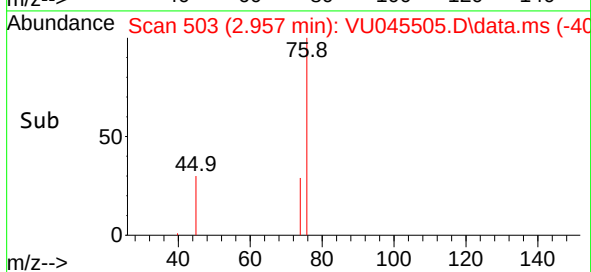
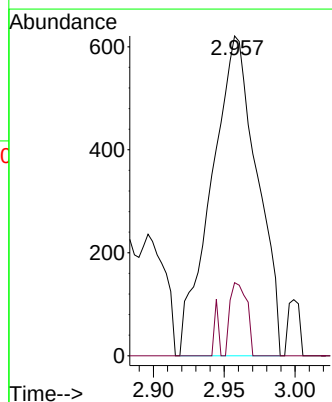
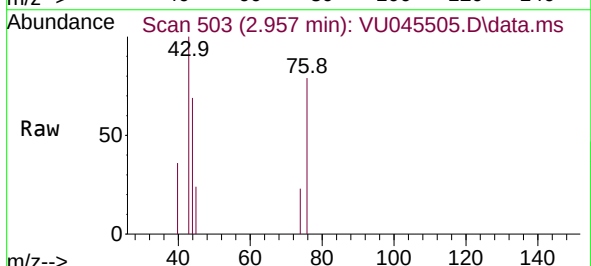
Instrument :
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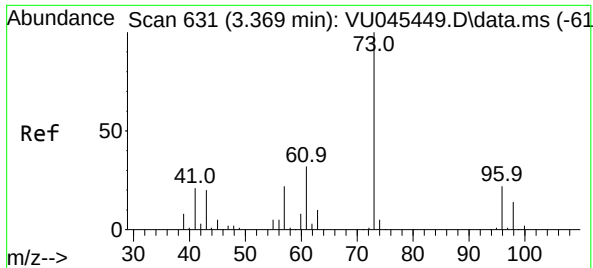
Tgt Ion: 76 Resp: 17029
Ion Ratio Lower Upper
76 100
78 9.5 7.3 10.9



#18
Methyl Acetate
Concen: 0.262 ug/l
RT: 2.957 min Scan# 503
Delta R.T. 0.003 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Tgt Ion: 43 Resp: 1390
Ion Ratio Lower Upper
43 100
74 8.5 20.2 30.2#

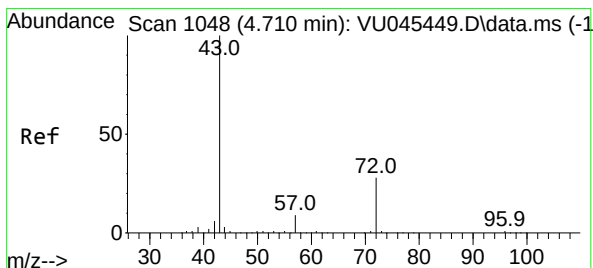
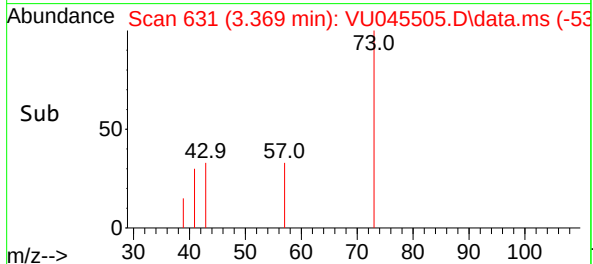
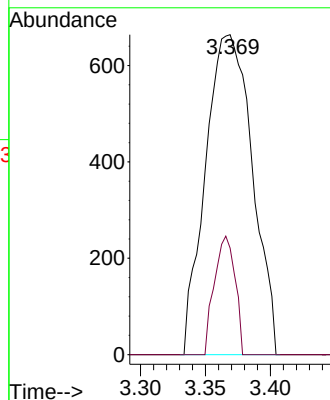
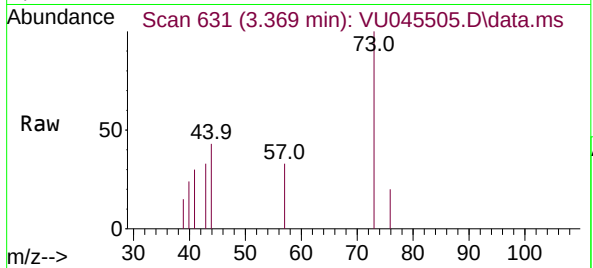




#19
Methyl tert-butyl Ether
Concen: 0.205 ug/l
RT: 3.369 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

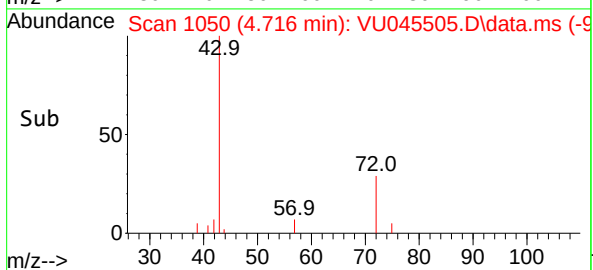
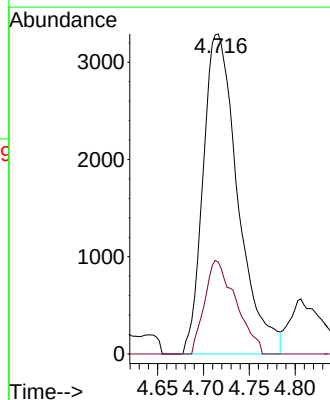
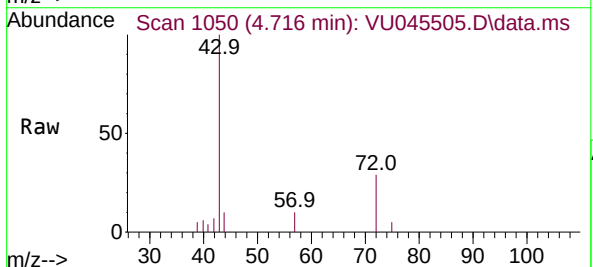
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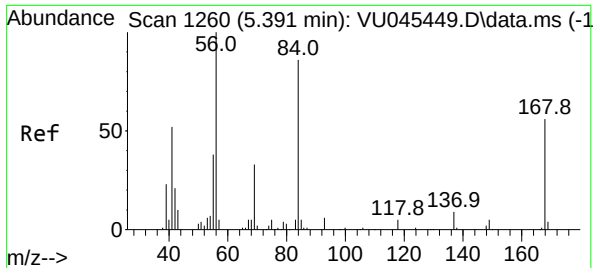
Tgt Ion: 73 Resp: 1667
Ion Ratio Lower Upper
73 100
57 33.3 18.1 27.1#



#25
2-Butanone
Concen: 4.029 ug/l
RT: 4.716 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Tgt Ion: 43 Resp: 8679
Ion Ratio Lower Upper
43 100
72 28.7 22.0 33.0

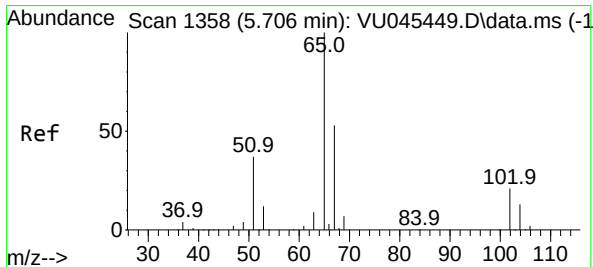
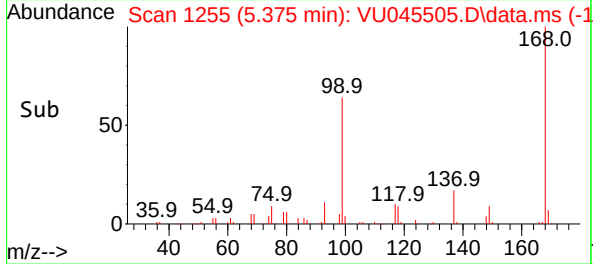
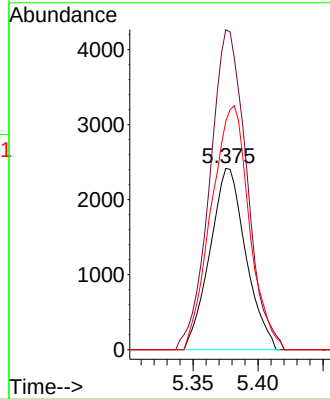
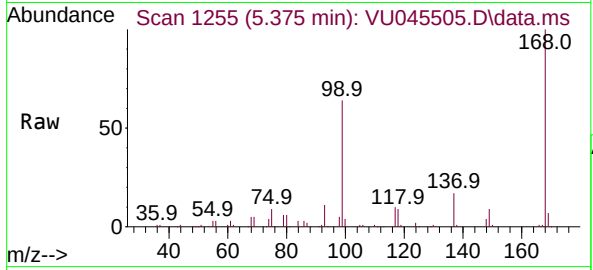




#31
Cyclohexane
Concen: 0.990 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.016 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

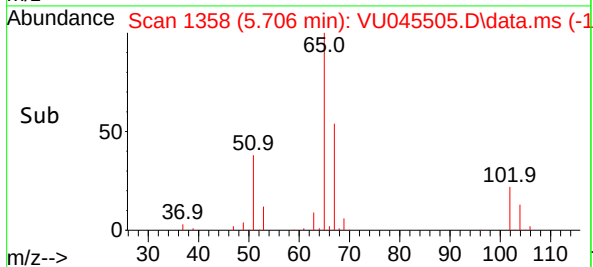
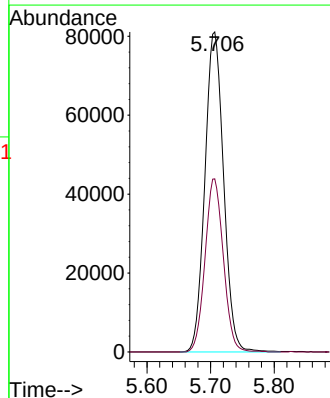
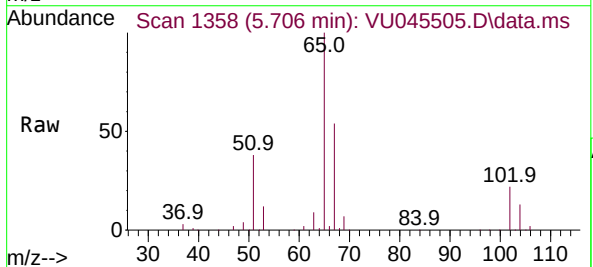
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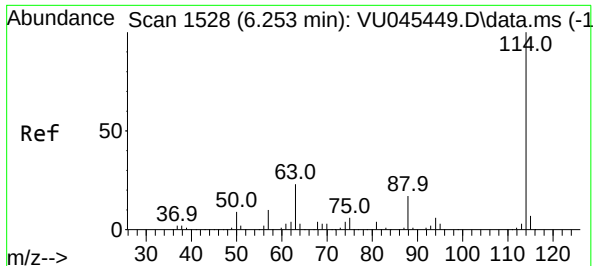
Tgt Ion: 56 Resp: 4632
Ion Ratio Lower Upper
56 100
69 171.3 26.4 39.6#
84 125.9 68.4 102.6#



#33
1,2-Dichloroethane-d4
Concen: 52.726 ug/l
RT: 5.706 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Tgt Ion: 65 Resp: 165744
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU045505.D

Acq: 01 Nov 2021 22:22

Instrument :

MSVOA_U

ClientSampleId :

FDR-20211101-WC-L

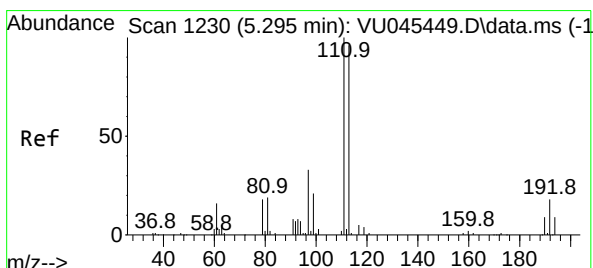
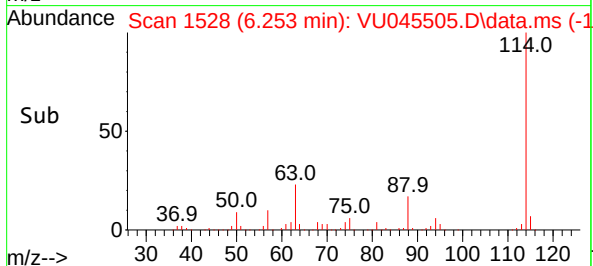
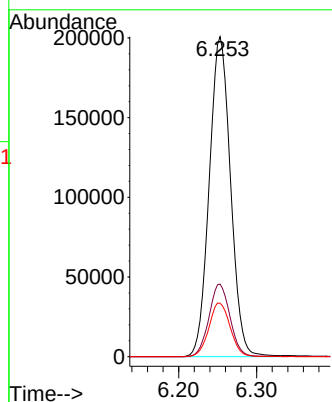
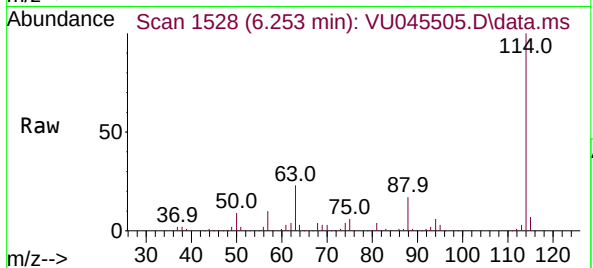
Tgt Ion:114 Resp: 381565

Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.6

88 16.7 0.0 33.8



#35

Dibromofluoromethane

Concen: 50.770 ug/l

RT: 5.295 min Scan# 1230

Delta R.T. -0.000 min

Lab File: VU045505.D

Acq: 01 Nov 2021 22:22

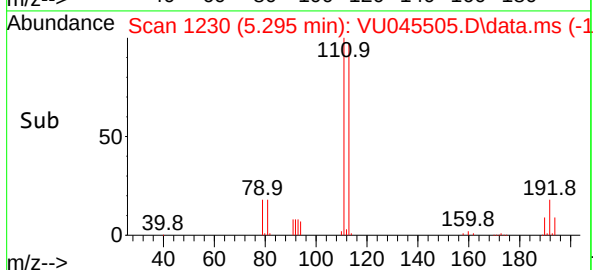
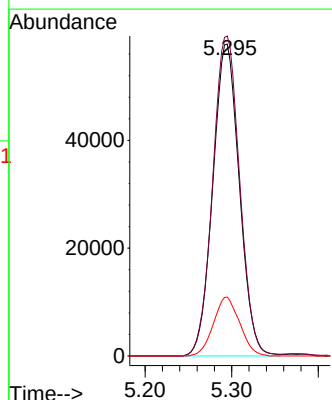
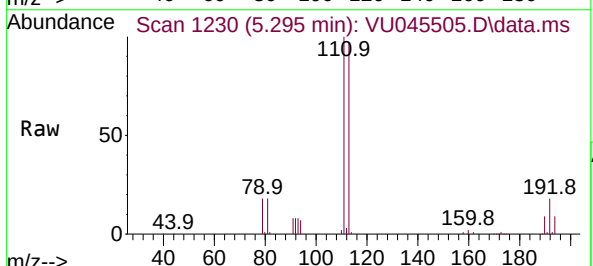
Tgt Ion:113 Resp: 123177

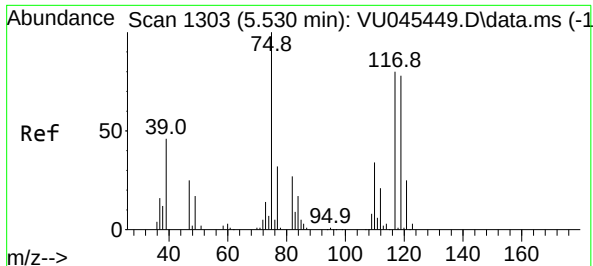
Ion Ratio Lower Upper

113 100

111 104.0 82.8 124.2

192 18.7 14.8 22.2





#36

1,1-Dichloropropene

Concen: 4.916 ug/l

RT: 5.375 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU045505.D

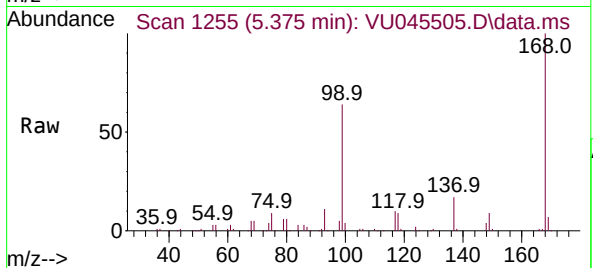
Acq: 01 Nov 2021 22:22

Instrument :

MSVOA_U

ClientSampleId :

FDR-20211101-WC-L



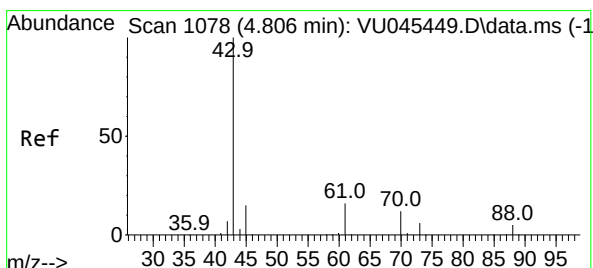
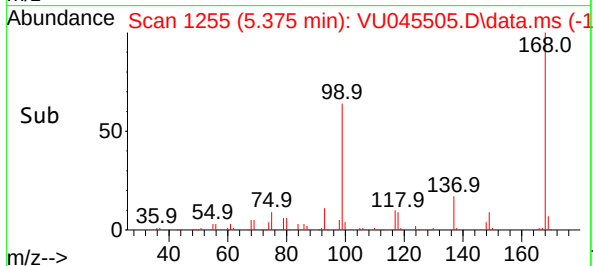
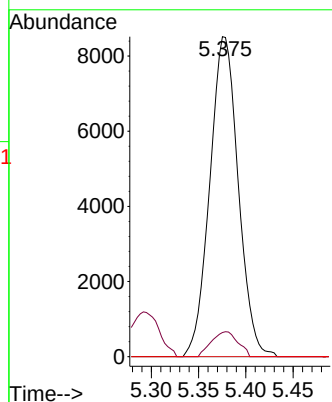
Tgt Ion: 75 Resp: 17857

Ion Ratio Lower Upper

75 100

110 7.2 16.7 50.0#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.353 ug/l

RT: 4.806 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VU045505.D

Acq: 01 Nov 2021 22:22

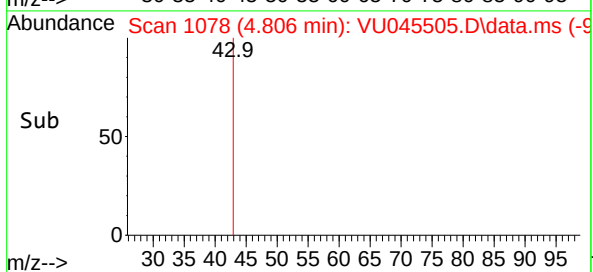
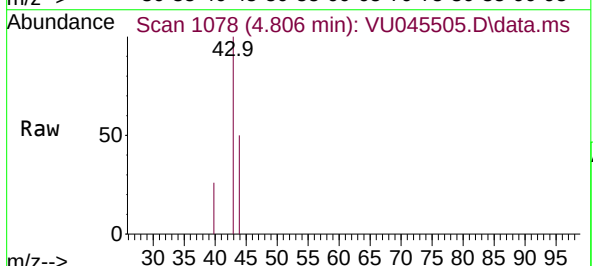
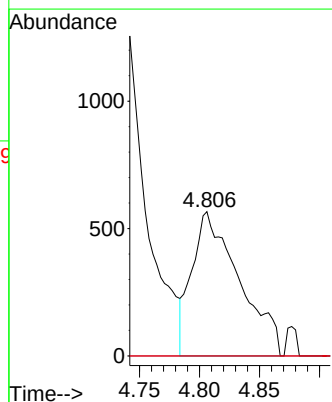
Tgt Ion: 43 Resp: 1551

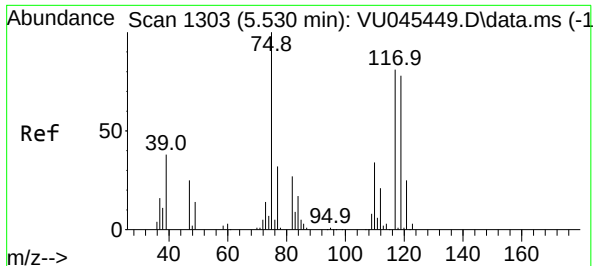
Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

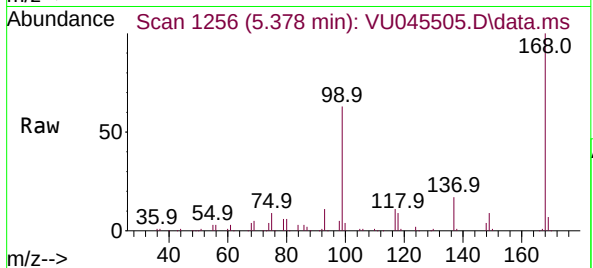
70 0.0 9.1 13.7#



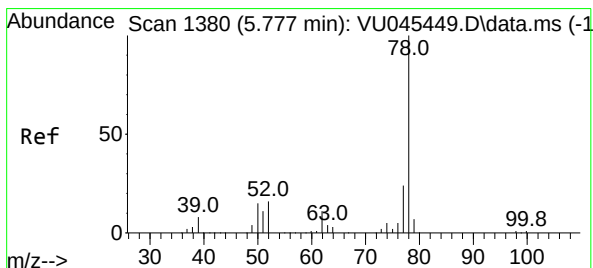
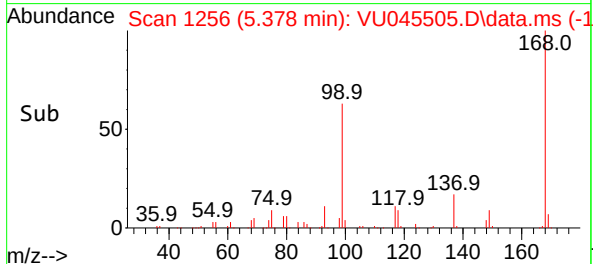
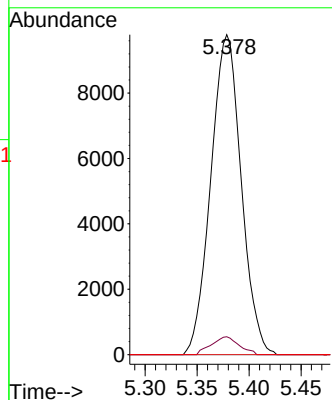


#38
Carbon Tetrachloride
Concen: 6.285 ug/l
RT: 5.378 min Scan# 117
Delta R.T. -0.151 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Instrument :
MSVOA_U
ClientSampleId :
FDR-20211101-WC-L

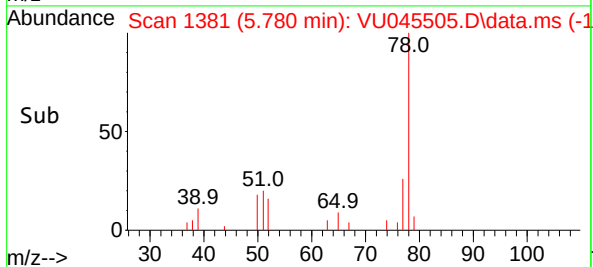
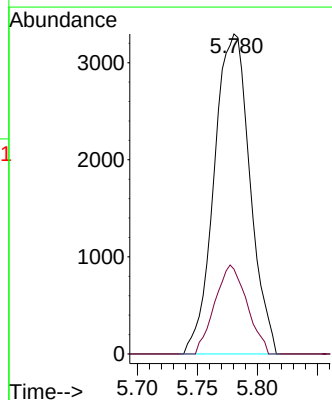
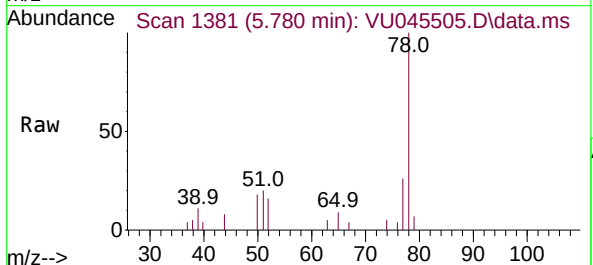


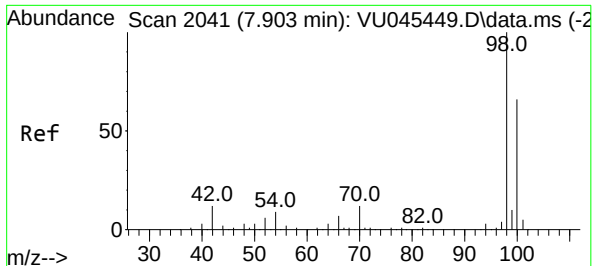
Tgt Ion:117 Resp: 19910
Ion Ratio Lower Upper
117 100
119 5.6 77.4 116.0#
121 0.0 24.8 37.2#



#40
Benzene
Concen: 0.625 ug/l
RT: 5.780 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Tgt Ion: 78 Resp: 6834
Ion Ratio Lower Upper
78 100
77 26.5 19.0 28.4





#50

Toluene-d8

Concen: 51.813 ug/l

RT: 7.902 min Scan# 2041

Delta R.T. -0.000 min

Lab File: VU045505.D

Acq: 01 Nov 2021 22:22

Instrument :

MSVOA_U

ClientSampleId :

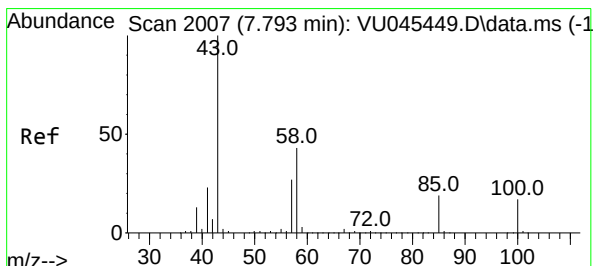
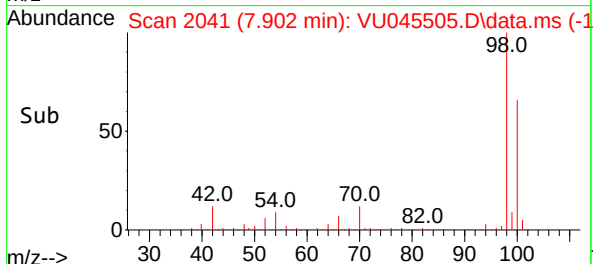
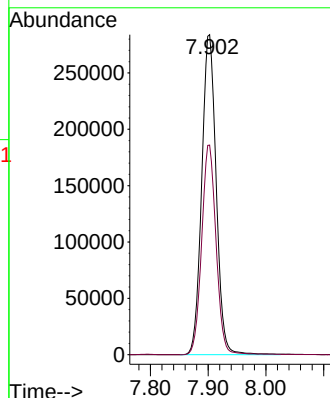
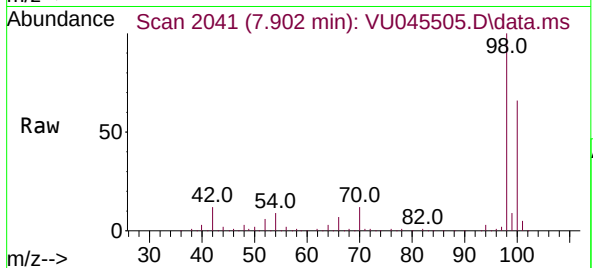
FDR-20211101-WC-L

Tgt Ion: 98 Resp: 492948

Ion Ratio Lower Upper

98 100

100 65.2 52.5 78.7



#51

4-Methyl-2-Pentanone

Concen: 0.863 ug/l

RT: 7.796 min Scan# 2008

Delta R.T. 0.003 min

Lab File: VU045505.D

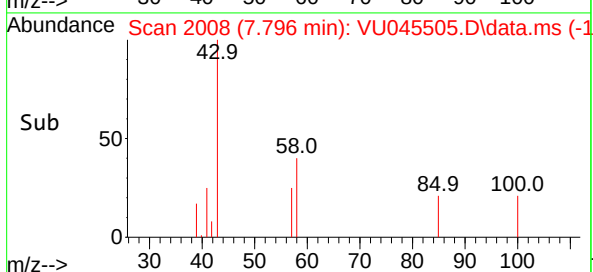
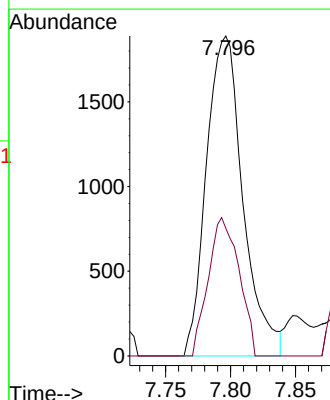
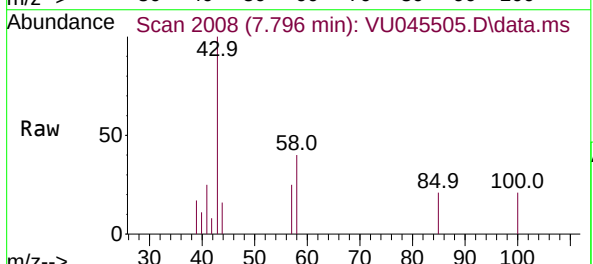
Acq: 01 Nov 2021 22:22

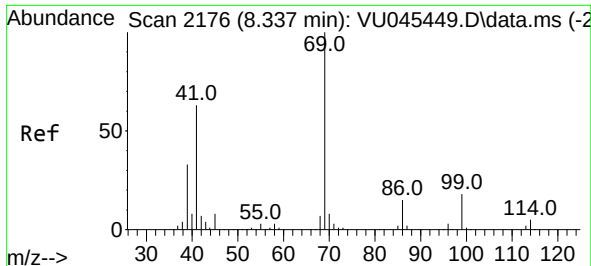
Tgt Ion: 43 Resp: 3696

Ion Ratio Lower Upper

43 100

58 36.3 33.8 50.8

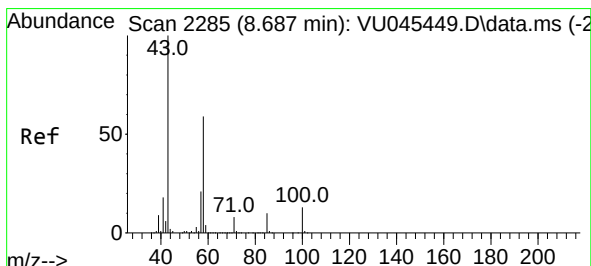
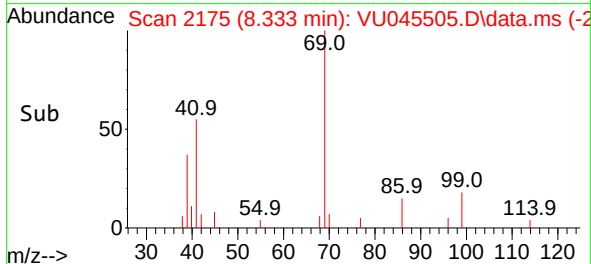
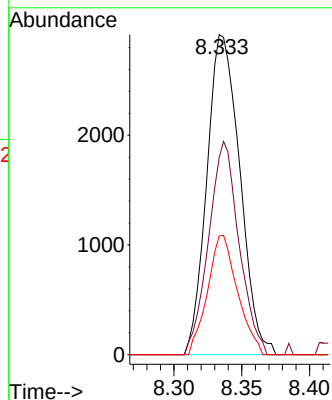
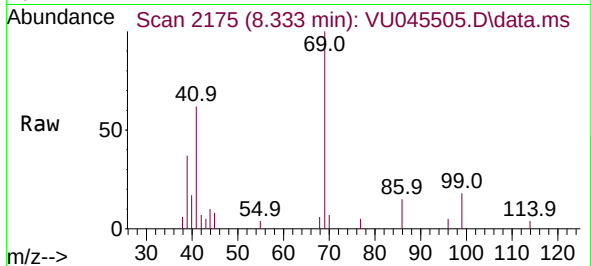




#56
Ethyl methacrylate
Concen: 2.602 ug/l
RT: 8.333 min Scan# 2175
Delta R.T. -0.004 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

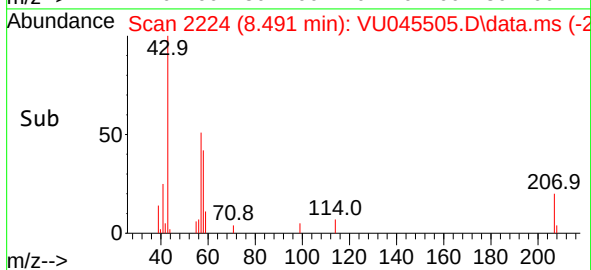
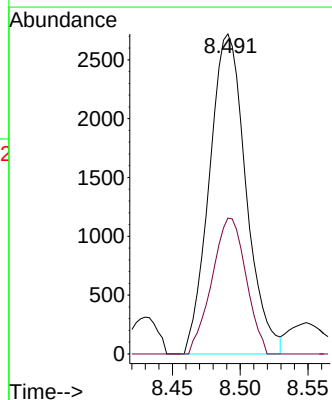
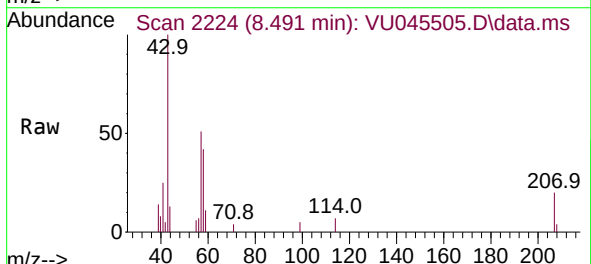
Instrument :
MSVOA_U
ClientSampleId :
FDR-20211101-WC-L

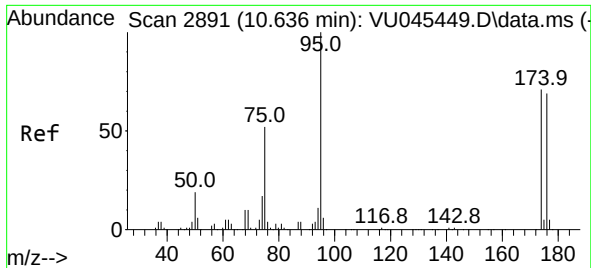
Tgt Ion:	69	Resp:	4936
Ion Ratio	Lower	Upper	
69	100		
41	61.6	51.0	76.4
39	33.9	26.6	39.8



#59
2-Hexanone
Concen: 1.538 ug/l
RT: 8.491 min Scan# 2224
Delta R.T. -0.196 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Tgt Ion:	43	Resp:	5107
Ion Ratio	Lower	Upper	
43	100		
58	39.4	29.5	88.6

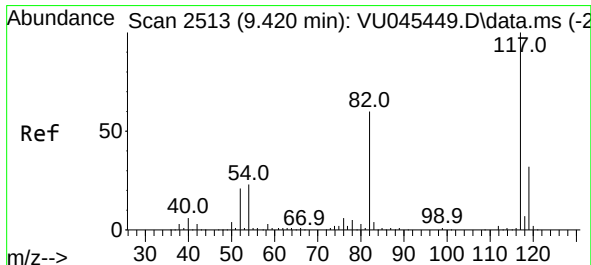
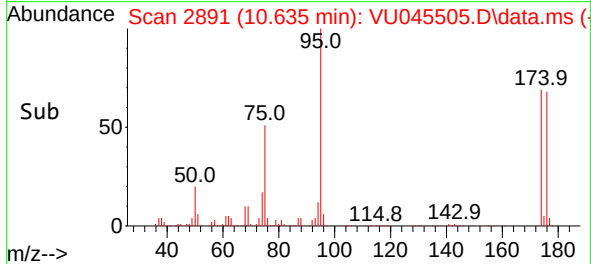
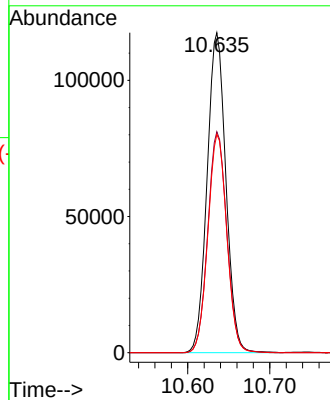
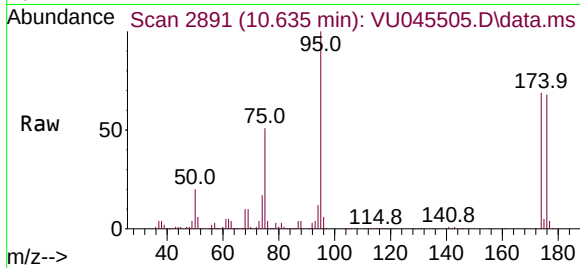




#62
4-Bromofluorobenzene
Concen: 51.517 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

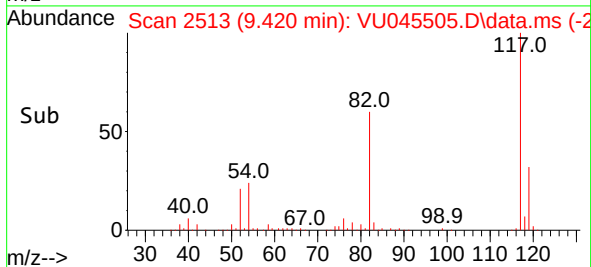
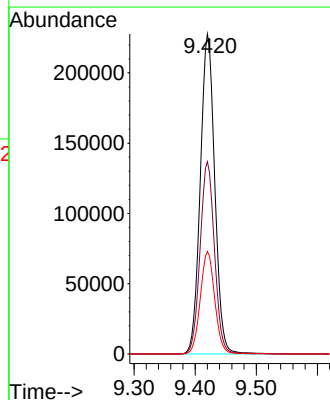
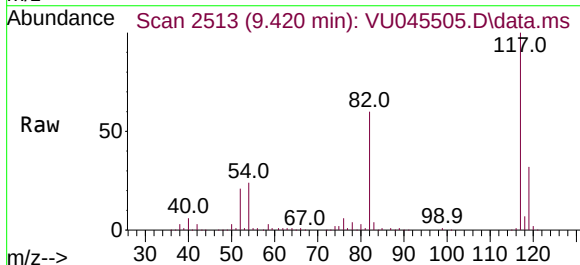
Instrument :
MSVOA_U
ClientSampleId :
FDR-20211101-WC-L

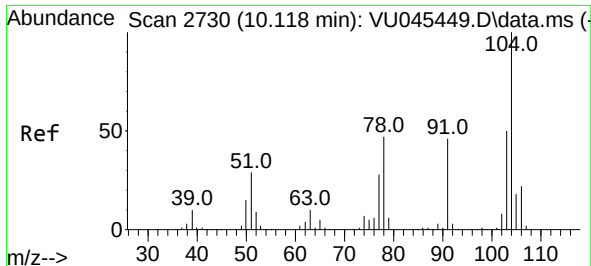
Tgt Ion: 95 Resp: 186770
Ion Ratio Lower Upper
95 100
174 70.0 0.0 141.8
176 68.6 0.0 138.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Tgt Ion: 117 Resp: 374359
Ion Ratio Lower Upper
117 100
82 60.1 47.8 71.8
119 32.0 25.8 38.8

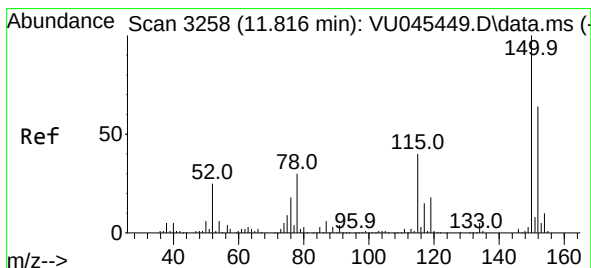
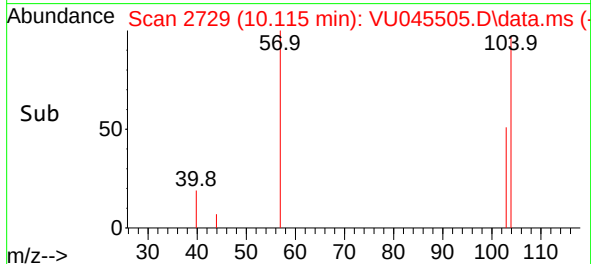
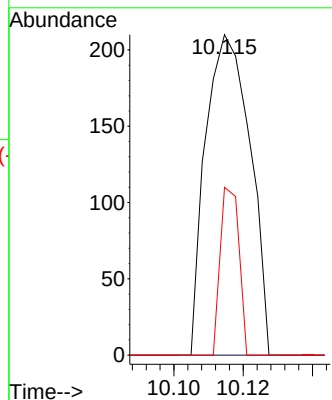
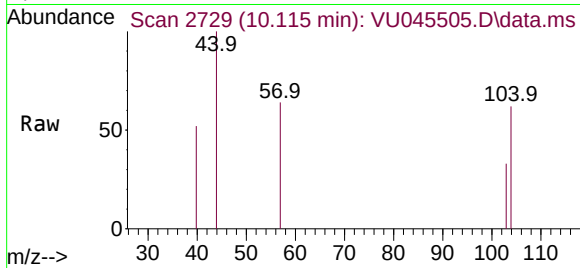




#70
Styrene
Concen: 0.997 ug/l
RT: 10.115 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

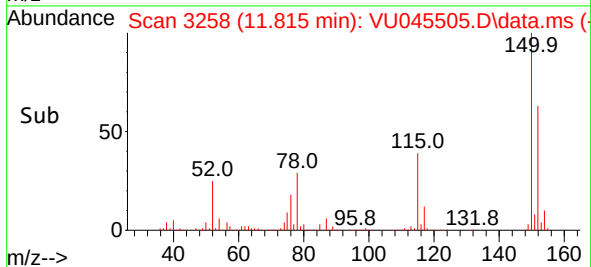
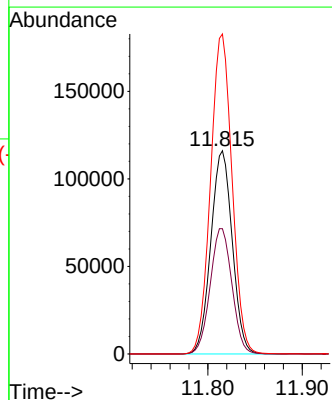
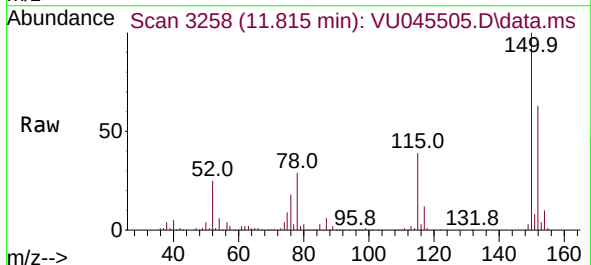
Instrument :
MSVOA_U
ClientSampleId :
FDR-20211101-WC-L

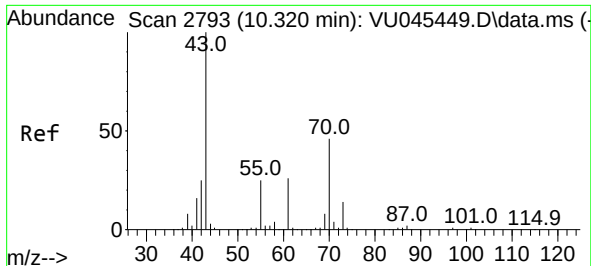
Tgt Ion:104 Resp: 187
Ion Ratio Lower Upper
104 100
78 0.0 41.8 62.6#
103 21.9 43.8 65.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Tgt Ion:152 Resp: 182865
Ion Ratio Lower Upper
152 100
115 62.4 42.7 128.1
150 157.4 0.0 346.8

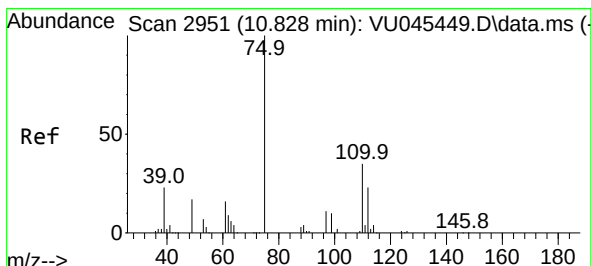
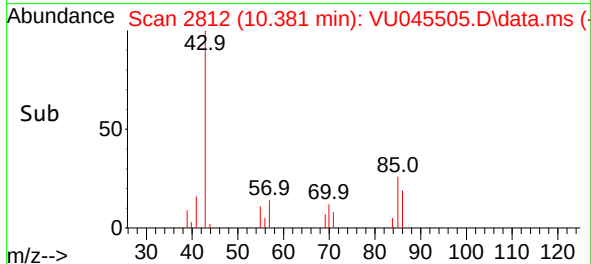
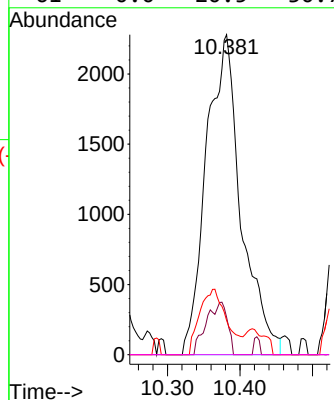
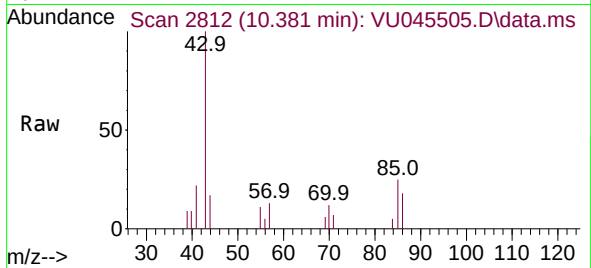




#74
N-amy1 acetate
Concen: 2.315 ug/l
RT: 10.381 min Scan# 2812
Delta R.T. 0.061 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

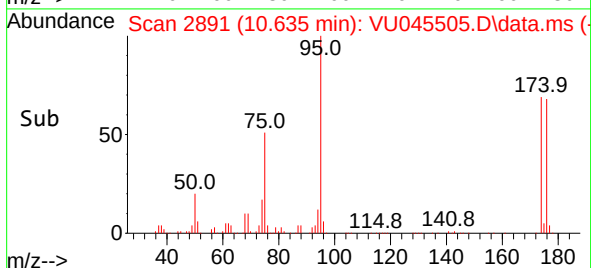
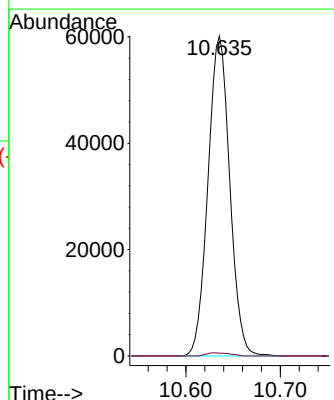
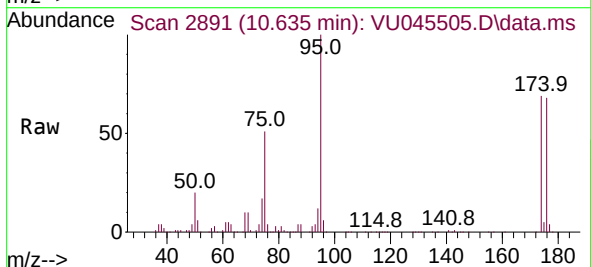
Instrument :
MSVOA_U
ClientSampleId :
FDR-20211101-WC-L

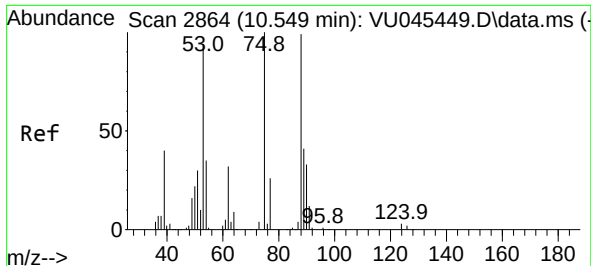
Tgt Ion: 43	Resp: 7591
Ion Ratio	Lower Upper
43	100
70	5.1 36.9 55.3#
55	0.0 20.6 31.0#
61	0.0 20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 19.752 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.193 min
Lab File: VU045505.D
Acq: 01 Nov 2021 22:22

Tgt Ion: 75	Resp: 96236
Ion Ratio	Lower Upper
75	100
77	1.1 17.1 51.3#

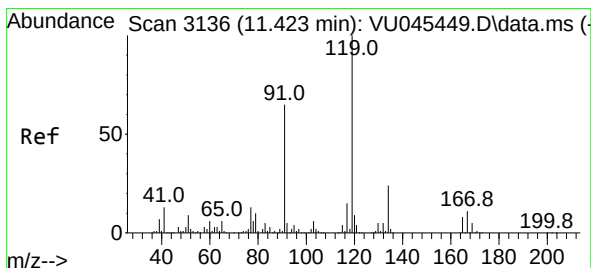
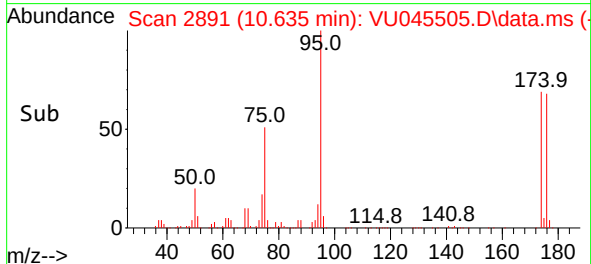
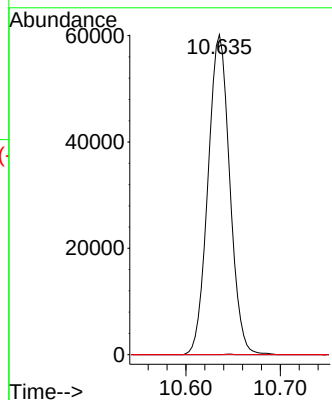
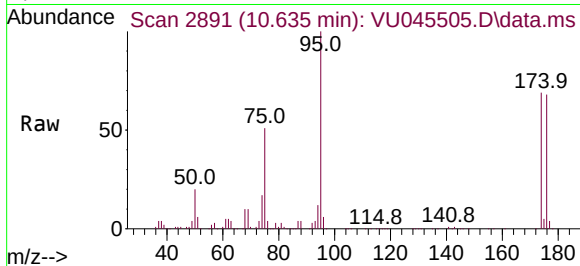




#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.896 ug/l
 RT: 10.635 min Scan# 21
 Delta R.T. 0.086 min
 Lab File: VU045505.D
 Acq: 01 Nov 2021 22:22

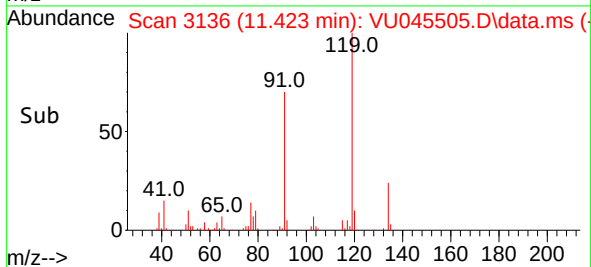
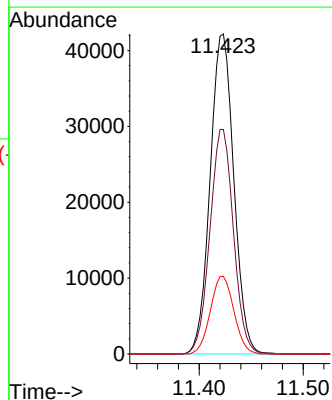
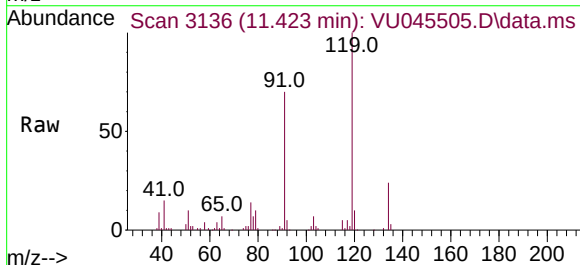
Instrument :
 MSVOA_U
 ClientSampleId :
 FDR-20211101-WC-L

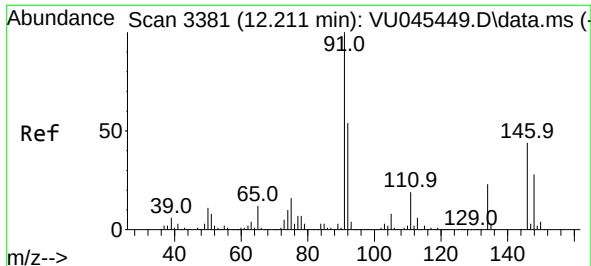
Tgt Ion: 75 Resp: 96236
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.2 114.4#
 89 0.0 34.0 51.0#



#83
 tert-Butylbenzene
 Concen: 6.668 ug/l
 RT: 11.423 min Scan# 3136
 Delta R.T. -0.000 min
 Lab File: VU045505.D
 Acq: 01 Nov 2021 22:22

Tgt Ion: 119 Resp: 66785
 Ion Ratio Lower Upper
 119 100
 91 69.6 30.5 91.5
 134 24.1 11.5 34.5





#89

n-Butylbenzene

Concen: 0.970 ug/l

RT: 12.208 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU045505.D

Acq: 01 Nov 2021 22:22

Instrument :

MSVOA_U

ClientSampleId :

FDR-20211101-WC-L

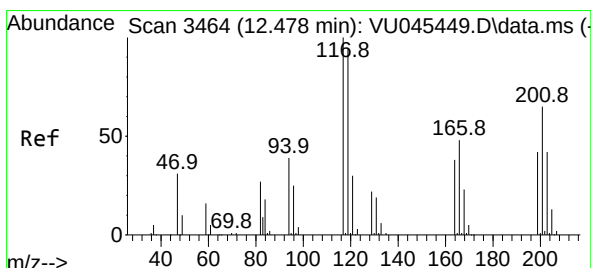
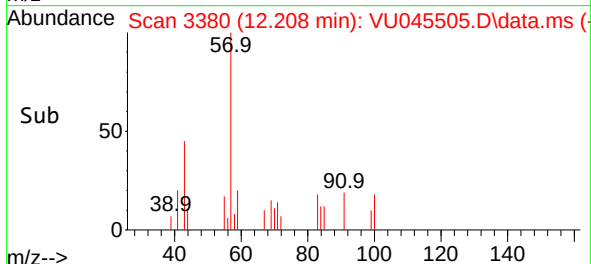
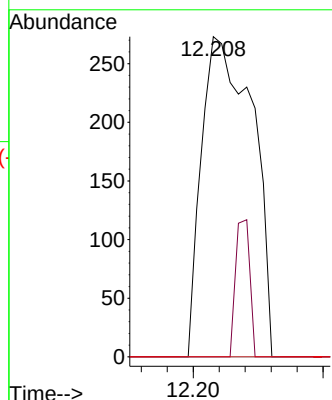
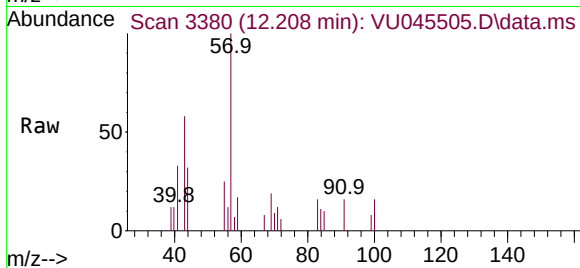
Tgt Ion: 91 Resp: 372

Ion Ratio Lower Upper

91 100

92 12.1 27.1 81.2#

134 0.0 11.8 35.4#



#90

Hexachloroethane

Concen: 1.065 ug/l

RT: 12.687 min Scan# 3529

Delta R.T. 0.209 min

Lab File: VU045505.D

Acq: 01 Nov 2021 22:22

Tgt Ion: 117 Resp: 1997

Ion Ratio Lower Upper

117 100

201 0.0 33.8 101.4#

